

Indiana's Growth Model

Phase 2 Disaggregated Data

Indiana's Growth Model

- Student Growth Percentiles (SGP)
 - Developed by Colorado and National Center for the Improvement of Educational Assessment
 - https://cdeapps.cde.state.co.us/growth_model_public/
 - http://www.nciea.org/
 - Compares individual students to students who started at the same level of achievement to determine relative growth
 - Assesses growth for every student
 - Student data aggregates to the group, school and corporation levels

The Mechanics of the SGP Model Applying the Model in Indiana





Meet Elmo.

Elmo is in grade 5.

Last year his math ISTEP score was 379 – he did not pass.

This year his math score was 411 – he did not pass.

That is an increase of 32 points.

Is that good, bad or average?

How do we decide?

We could look at the average gain from 4th to 5th for all students in his school (429 to 455 = gain of 26) so 32 looks really good

Or we could compute student growth percentiles...

Computing Student Growth Percentiles

- We must have at least two test scores for a student to calculate growth (Yr.1 & Yr.2)
- Elmo's math score was 379 in 07 & 411 in 08
- For each subject we find all of the students who earned exactly the same scale score (Yr.I) as Elmo (his "academic peers")
 - 222 students had a math score of 379 (grade 4 Fall 07)
- Determine the distribution of those student's scores in Yr.2
 - The median Yr 2 score for these 222 students was 404 (50%tile)
 - Going from 379 to 404 (25 points increase) is "I year's growth" for these students
 - Elmo went from 379 to 411 which places him at the 54%ile
- For each student and content area we do the same calculations
 - This means each scale score in year 1 has its own year 2 score that defines the 50%ile (a year's growth)

Achievement

(Average Percent Passing)

Low Growth
High
Achievement

High Growth High Achievement Growth and achievement are combined for each content area to determine which "quadrant" that a group or school falls into based on the students served for 126 days.

Growth (Median SGP)

Low Growth
Low
Achievement

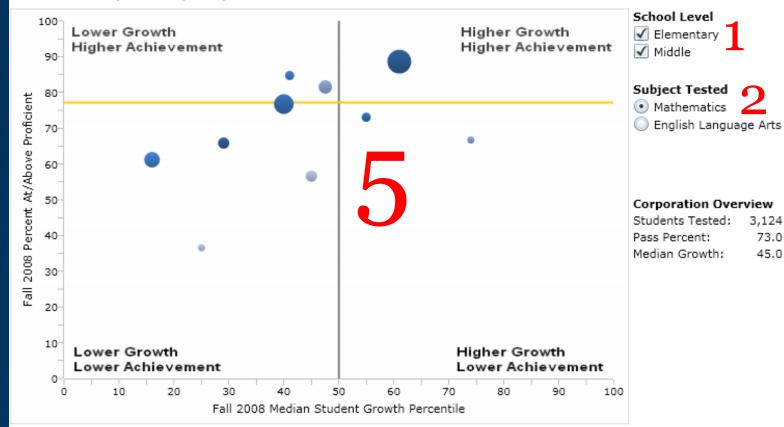
High Growth Low Achievement

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Indiana Examples



XYZ School Corporation (8800): School Achievement & Growth



3,124

73.0

45.0

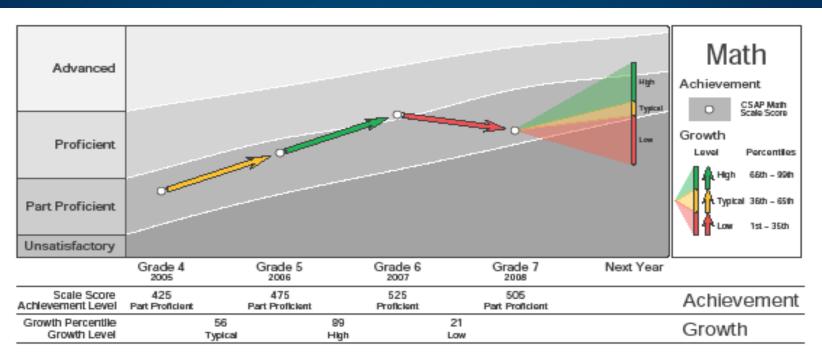
Clear All School Selections

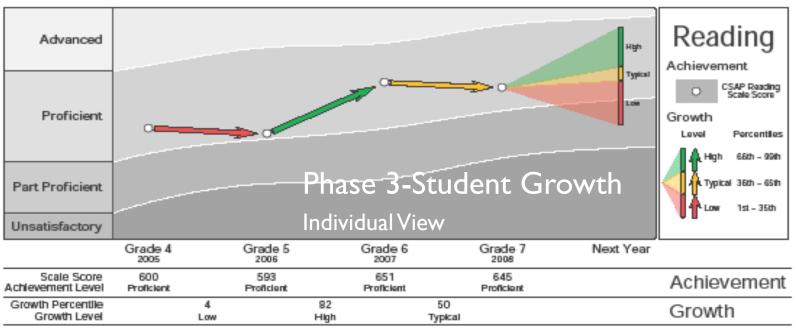
School	School Id	# Tested	Pass %	Median Growth %		
Elementary School 1	XXX1	197	84.8	41.0		٨
Elementary School 10	XX10	150	66.7	74.0	4	
Elementary School 2	XXX2	261	65.9	29.0	•	
Elementary School 4	XXX4	321	81.6	47.5		
Elementary School 6	XXX6	389	61.2	16.0		
Elementary School 7	XXX7	272	56.6	45.0		
Elementary School 9	XXX9	145	36.6	25.0		

Only schools that were open during the 2007-2008 school year are included.

Next Steps

- February release of Phase I to the public
 - There will be a link to growth from the "Snapshot" page
 - http://www.doe.in.gov/growthmodel/
 - http://dc.doe.in.gov/GrowthModel/
- Phase 2 data includes disaggregated data
 - Gender, disabilities, race/ethnicity, free lunch,
 English learners, grade levels
- Phase 3 data will include secure access to individual student data







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https://learningconnection.doe.in.gov/GrowthModel/Search.aspx